

**Table S16: Test for trend as for main analysis but restricted to case-control sets with GridSq-AP radon exposure estimates**

Model includes cumulative radon exposure, cumulative gamma-ray exposure and quintiles of Carstairs index of deprivation

Exposure period birth to diagnosis

ICCC3		Number of Cases	Number of Controls	Relative Risk							
				Radon			Gamma				
				RR <sup>a</sup>	95% CI	p	RR <sup>b</sup>	95% CI	p		
11	Lymphoid Leukaemia	6089	7895	1.19	0.89	1.59	0.25	1.09	1.00	1.19	0.05
12	Acute Myeloid Leukaemia	1113	1440	0.61	0.30	1.25	0.18	1.09	0.92	1.29	0.32
13-15	Other Leukaemia	397	510	1.00	0.32	3.11	1.00	1.28	0.94	1.76	0.12
11-15	Total Leukaemia	7599	9845	1.07	0.82	1.38	0.35	<b>1.10</b>	1.02	1.18	0.02
21	Hodgkin's disease	804	1129	0.98	0.58	1.66	0.95	1.04	0.92	1.18	0.50
22	Non-Hodgkin Lymphoma	823	1065	1.21	0.63	2.33	0.56	1.07	0.91	1.27	0.41
21-25	Total Lymphoma	1961	2690	1.07	0.73	1.56	0.73	1.01	0.92	1.10	0.83
11 ,22	Lymphoid Leukaemia + NHL	6912	8960	1.18	0.91	1.54	0.21	<b>1.08</b>	1.00	1.17	0.04
11-15, 22	Total Leukaemia + NHL	8422	10910	1.08	0.85	1.37	0.53	<b>1.09</b>	1.02	1.17	0.01
31-36	Brain/CNS (including Benign)	5589	7501	1.20	0.90	1.61	0.21	0.99	0.93	1.06	0.75
41-122	Other malignant tumours	7872	10234	1.01	0.81	1.28	0.91	1.01	0.94	1.07	0.84
21-122	Not Leukaemia	15422	20425	1.08	0.91	1.27	0.38	1.00	0.96	1.04	0.96
11-122	Total Childhood Cancer	23021	30270	1.07	0.93	1.23	0.32	1.02	0.99	1.06	0.22

<sup>a</sup>RR for each 10<sup>3</sup> Bq/m<sup>3</sup> - years increase in cumulative radon exposure<sup>b</sup>RR for each mGy increase in cumulative gamma-ray exposure

RRs in bold are significantly different from 1.00 (P&lt;0.05), RRs in bold and underlined are significantly different from 1 (P&lt;0.01)